

Listing of claims:

1-31 (Cancelled)

32. (New) A wireless communication system comprising:

a plurality of access points, each access point having at least one omnidirectional antenna forming a substantially uniform coverage area around the access point; and

a plurality of subscriber units, each subscriber unit having at least one directional antenna forming a directional coverage area, the directional coverage area selectable from a plurality of directional coverage areas provided by the subscriber unit;

whereby each subscriber unit communicates with a particular access point through a reverse sectorization transmission between the subscriber unit directional antenna and the omnidirectional antenna.

33. (New) A wireless communication system as in claim 32 further comprising a routing network interconnecting the plurality of access points.

34. (New) A wireless communication system as in claim 33 wherein the routing network comprises a distributed network of distribution points.

35. (New) A wireless communication system as in claim 34 wherein at least one distribution point is in the same location as one access point.

36. (New) A wireless communication system as in claim 33 wherein at least one access point is in wireless communication with the routing network through at least one backhaul antenna.

37. (New) A wireless communication system as in claim 32 wherein transmissions between the subscriber unit and the access point comprise packetized information.

38. (New) A wireless communication system as in claim 32 wherein the subscriber unit is a terminal network controller comprising at least one interface, each interface providing access to the wireless communication system.

39. (New) A wireless communication system as in claim 38 wherein the terminal network controller further comprises a routing switch routing information packets to and from the at least one interface.

40. (New) A wireless communication system as in claim 32 wherein the directional antenna comprises a plurality of antenna patches, the subscriber unit selecting at least one antenna patch as the directional antenna.

41. (New) A wireless communication system as in claim 32 wherein the directional antenna is operative to be positioned to optimize transmissions between the subscriber unit and the particular access point.

42. (New) A wireless communication system comprising:

- a plurality of access points, each access point transmitting and receiving information packets, each information packet transmitted through reverse sectorization over a substantially uniform coverage area around the access point;

- a network of distribution points in communication with the access points, the distribution points routing information packets between the access points based upon a forwarding equivalency class for each access point; and

- a plurality of subscriber units, each subscriber unit transmitting and receiving information packets, each subscriber unit transmitting information packets through reverse sectorization over a focused directional coverage area.

43. (New) A method of reverse sectorization communication comprising:
enabling a communication path for at least one access point, the at least one access point including an omnidirectional antenna;
enabling a channel between the at least one access point and one of a plurality of subscriber units by selecting one of a plurality of antenna directions in the subscriber unit, the selected antenna direction activating a directional antenna;
transmitting, through reverse sectorization, at least one information packet in a uniform coverage area around each access point; and
receiving the at least one information packet at each access point, the received information packet being transmitted from the directional antenna.
44. (New) A method of wireless communication as in claim 43 wherein transmitting, through reverse sectorization, at least one information packet in a uniform coverage area around each access point comprises transmitting from the omnidirectional antenna.
45. (New) A method of wireless communication as in claim 43 wherein transmitting, through reverse sectorization, at least one information packet in a uniform coverage area around each access point comprises transmitting from the directional antenna.
46. (New) A method of wireless communication as in claim 43 further comprising enabling the subscriber unit to select at least one of a plurality of antenna elements to form the directional antenna.
47. (New) A method of wireless communication as in claim 43 further comprising enabling the subscriber unit to aim the directional antenna.
48. (New) A method of wireless communication as in claim 43 wherein transmitting through reverse sectorization is accomplished through a wireless transmission.
49. (New) A method of wireless communication as in claim 43 further comprising routing the received information packet to one of a plurality of interfaces at the subscriber unit.